ASSEMBLY MANUAL©

Hardware & Parts Listing

Assembly Instructions

Maintenance Notes

for

48” PLUG AERATOR

MANUAL DE MONTAJE©

Lista de piezas y tornillería

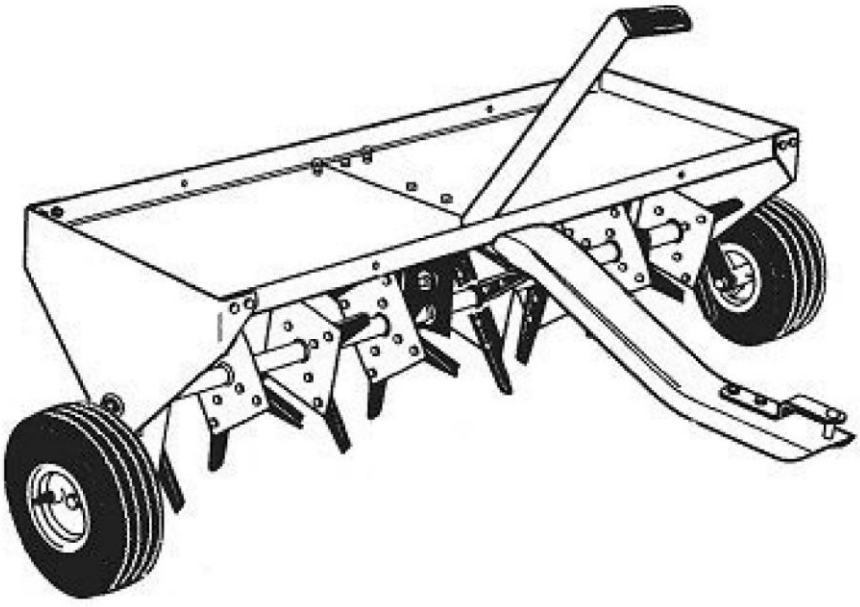
Instrucciones de armado

Notas de mantenimiento

para el

AIREADOR DE 48”

(1,22 m) A CUCHILLAS



MODEL # AE-48T

Pre-assembly Instructions:

For best results, follow all directions step by step.
Read entire step instructions first, then proceed with the set up.
Open all boxes before beginning to assemble and check parts and hardware.
HELPFUL TIP: Read ALL instructions before starting to assemble.

Check Parts and Hardware:

Group together and check that all hardware and parts are included.
Refer to parts and hardware illustrations below.
If you are missing parts, contact Customer Service at (866)938-5222 for missing hardware or parts.

Recommended Tools for Assembly:

2 each – Combination Wrenches 1/4”, 5/16”, 1/2” & 3/4” (one ratcheting for faster work)
1 – Adjustable Wrench – Medium Size
1 – Medium Size Pliers

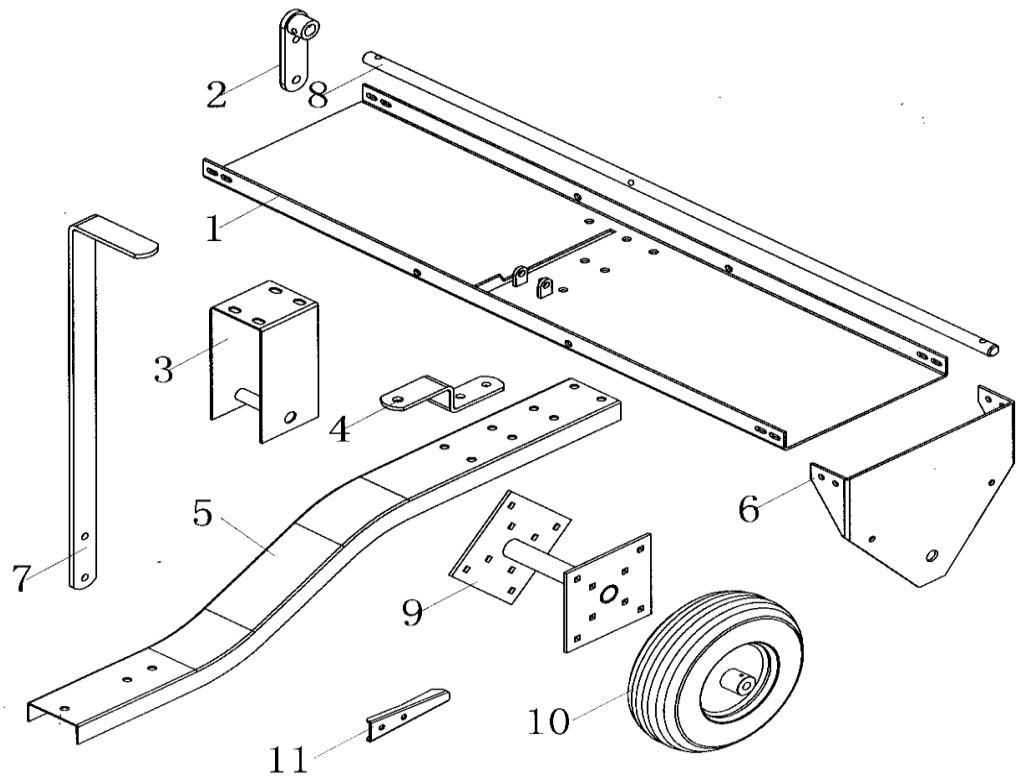
PARTS LISTINGS:

NOTE: Parts #9 & #11 below will be assembled for this model

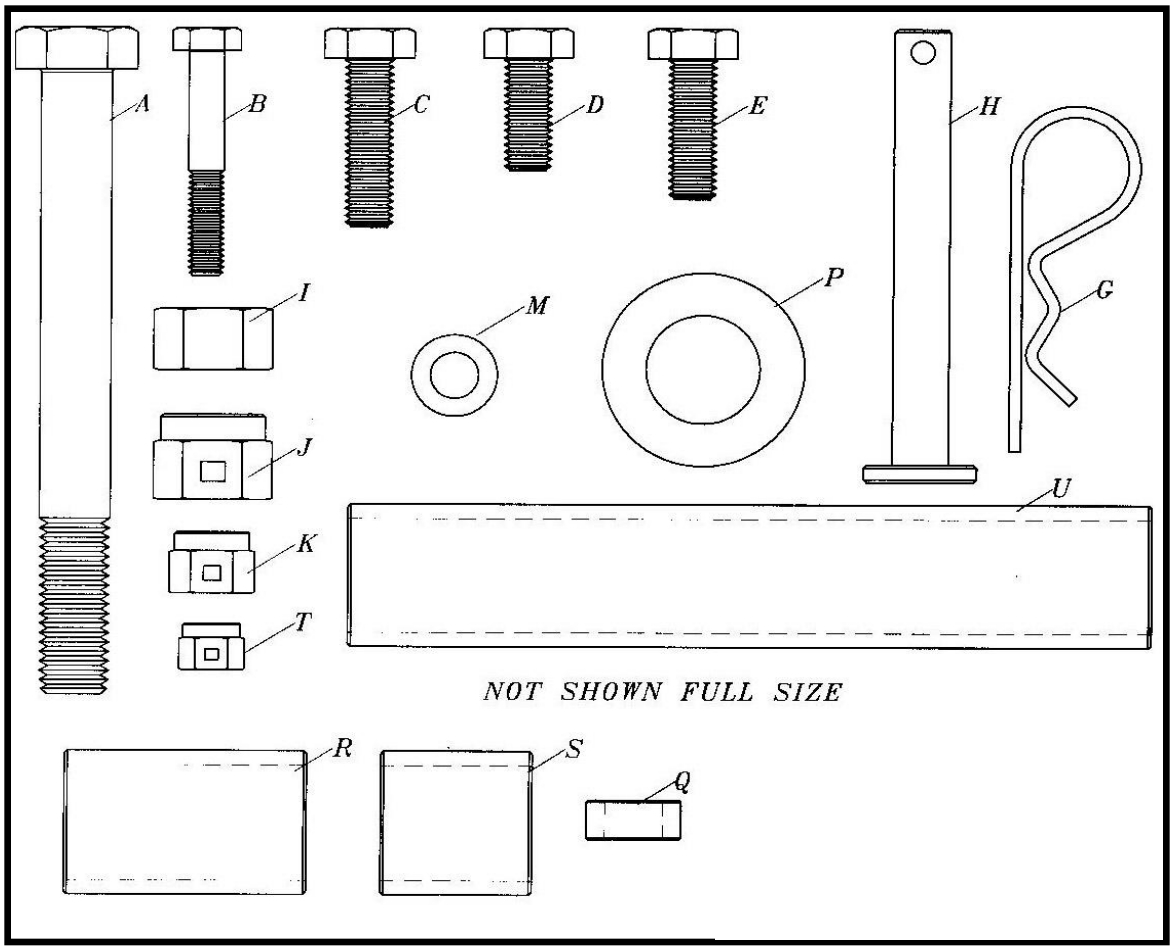
Main Parts Listing

Ref#	Part #	Qty	Description
1	AE48-01	1	Top Tray
2	AE48-02	3	Wheel Bracket
3	AE48-03	1	Middle Brace
4	AE48-04	1	Hitch Bracket
5	AE48-05	1	Tongue
6	AE48-06	2	End Plate

Ref#	Part #	Qty	Description
7	AE48-07	1	Lift Handle
8	AE48-08	1	Axle / Shaft
9	AE48-09	4	Double Spool Assembly
10	AE48-10	2	Wheel Assembly
11	AE48-11	32	Plug Knife (assembled w/ #9)



HARDWARE PARTS: (not actual size)



Hardware Pack Listing:

Ref#	Part #	Qty	Description
A	AE48-A	2	Hex Bolt 1/2" x 4-7/16"
B	AE48-BT	3	Hex Bolt 1/4" x 1-9/16"
C	AE48-C	4	Hex Bolt 5/16" x 1-3/16"
D	AE48-D	12	Hex Bolt 5/16" x 13/16"
E	AE48-E	6	Hex Bolt 5/16" x 1"
F	AE48-F	1	Lock Pin (Not Shown)
G	AE48-G	1	Hair Cotter Pin
H	AE48-H	1	Hitch Pin
I	AE48-I	2	Hex Nut, 1/2"

Ref#	Part #	Qty	Description
J	AE48-J	2	Lock Nut, 1/2"
K	AE48-K	22	Lock Nut, 5/16"
M	AE48-M	12	Flat Washer, 5/16"
P	AE48-P	6	Flat Washer, 7/8"
Q	AE48-Q	8	Spacer 1/4" Long
R	AE48-RT	1	Spacer Tube, 2.11"
S	AE48-S	3	Spacer Tube, 1.00"
T	AE48-TT	3	Lock Nut, 1/4"
U	AE48-U	2	Spacer Tube, 5.29"

Assembly Instructions:

Step 1: Attach Wheel Bracket to Axle Shaft

Attach one wheel bracket to the middle hole of the axle shaft.
Note the wheel bracket ring should point toward the shortest side of the axle.
See Figure #2. Secure bracket using a 1/4” x 1-9/16” Hex Bolt and 1/4” Lock Nut.
Fully tighten connection.
See figure #2.

Step 1 Hardware Needed:
1 – Wheel Bracket
1 – Axle Shaft
1 – Hex Bolt (1/4” x 1-9/16”)
1 – Lock Nut (1/4”)

Step 2: Insert Hex Bolt

For assembly in later step. Insert from the short side of the axle a 5/16” x 1” Hex Bolt into the hole closest to the axle.
Finger tighten Lock nut to the bolt
Do not tighten until later step.
See Figure #2.

Step 2 Hardware Needed:
1 – Hex Bolt (5/16” x 1”)
1 – Lock Nut (5/16”)

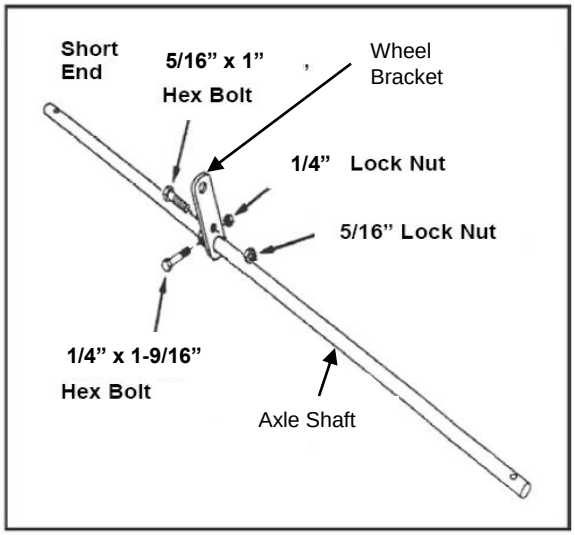


Figure 2

Step 3: Assemble Short Side of Axle Shaft

Assemble below items onto short side of the axle shaft in the following order.
Note the plugger knives should face out

1. Start with one double spool
2. 5.29” spacer tube
3. Double spool
4. 1” spacer tube
5. Flat washer (7/8”)

See figure #3.

Step 3 Hardware Needed:

2 – Double spools
1 – 5.29” spacer tube
1 – 1” spacer tube
1 – Flat washer (7/8”)

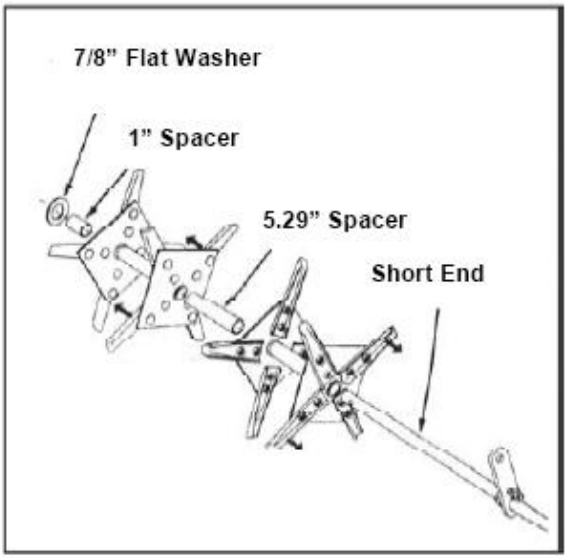


Figure3

Step 4: Assemble Long Side of Axle Shaft

Assemble these items onto LONG SIDE of the axle shaft in the following order. Plugger knives can face same direction when assembled.

1. Start with 1” spacer tube
2. 7/8” flat washer
3. Middle Brace
4. 7/8” flat washer
5. 2.11” spacer tube
6. Double spool assembly
7. 5.29” spacer tube
8. Double spool assembly
9. 1” spacer tube
10. 7/8” flat Washer

See Figure #4 for detail

Step 4 Hardware Needed:

1 – Middle brace
2 – Double spools
1 – 2.11” spacer tube
1 – 5.29” spacer tube
2 – 1” spacer tube
3 – Flat washer (7/8”)

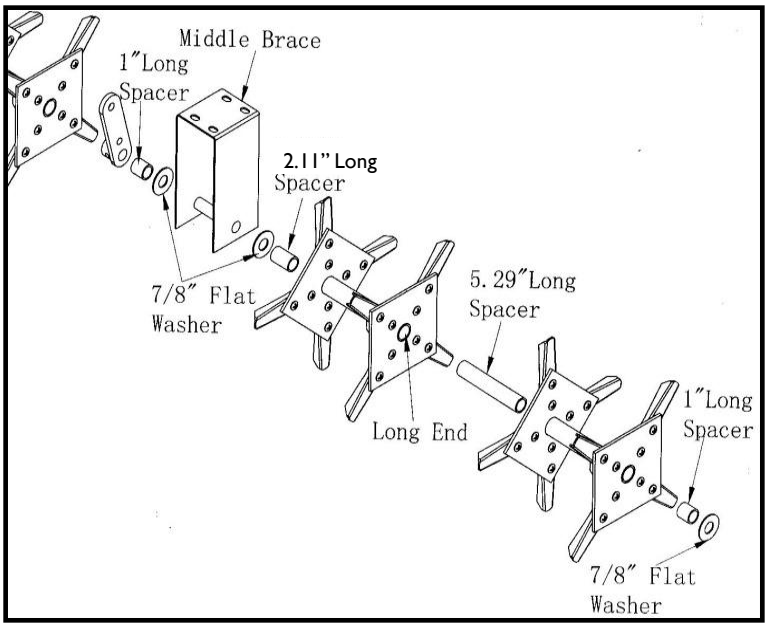


Figure 4

Step 5: Attach End Plates & Wheel Bracket

Start by rotating the wheel bracket in the middle of the axle shaft so it is pointing upward. Next, attach an End Plate to one side, followed by 7/8” flat washer, followed by a wheel bracket. Note in Figure #5, wheel bracket ring faces inward. Fasten wheel bracket to axle shaft using 1/4” x 1-9/16” Hex Bolt and 1/4” Lock Nut.

Fully tighten connection.

Repeat for opposite side.

Step 5 Hardware Needed:

2 – End Plates
2 – Wheel Brackets
2 – Flat Washers (7/8”)
2 – Hex Bolts (1/4” x 1-9/16”)
2 – Lock Nuts (1/4”)

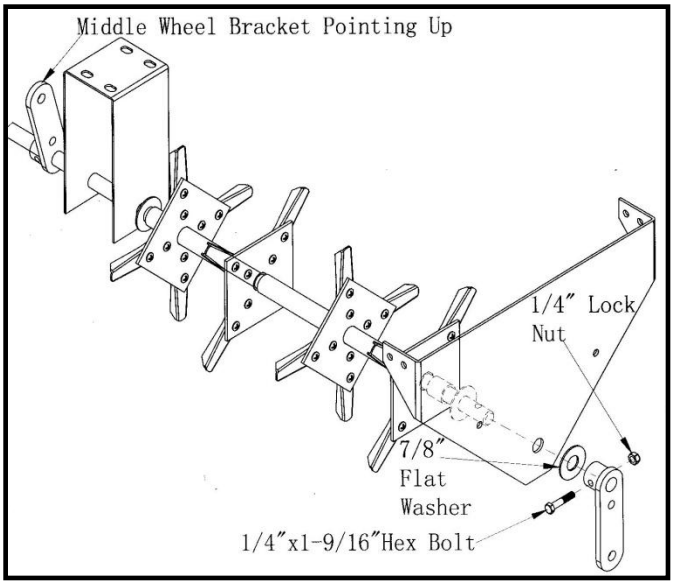


Figure 5

Step 6: Attach Wheel Assembly

Insert 1/2” x 4-7/16” Hex bolt through wheel assembly, install 1/2” Hex nut on 1/2” x 4-7/16” Hex bolt, tighten nut on bolt (wheel should spin freely)**.** Attach assembled wheel and 1/2” Hex bolt on to wheel bracket and fasten with 1/2” Lock nut. Repeat for opposite side.

Check that wheels spin freely after assembly.

See figure #6 for reference.

Step 6 Hardware Needed:

2 – Wheel Assembly
2 – Hex Bolt (1/2” x 4-7/16”)
2 – Hex Nut (1/2”)
2 – Lock Nut (1/2”)

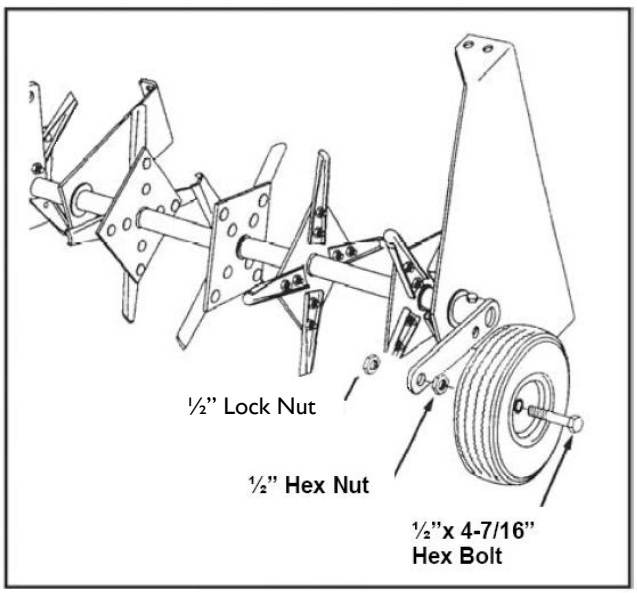


Figure 6

Step 7: Attach Hitch Bracket & Hitch Pin

Attach hitch bracket to the tongue using 5/16” x 13/16” Hex Bolt and 5/16” Lock Nut. Next, insert hitch pin through hitch bracket and the tongue secure with cotter pin.

Fully tighten connections

See Figure #7

Step 7 Hardware Needed:

1 – Hitch Bracket
2 – Hex Bolts (5/16” x 13/16”)
2 – Lock Nuts (5/16”)
1 – Hitch Pin
1 – Hair Cotter Pin

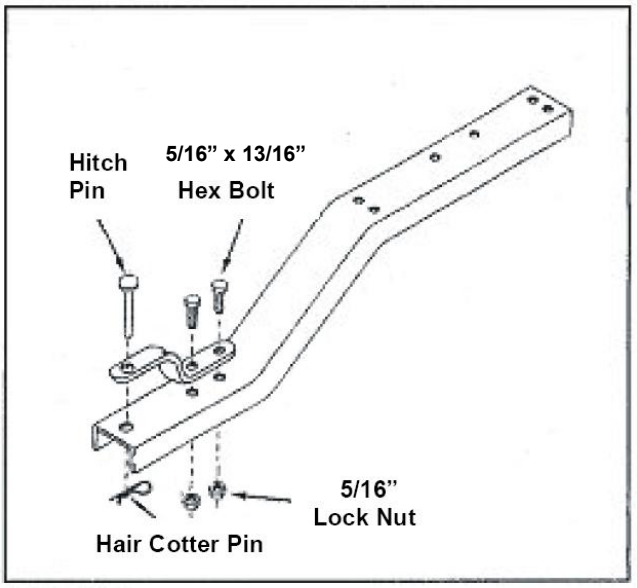


Figure 7

Step 8: Attach Tongue to Top Tray

Attach the tongue to the top tray with the large opening of the tray slot facing forward. Attach tongue using the top tray holes to right side of slot (viewing from front). For right side holes of tongue connection (view from front), use 5/16” x 1-3/16” Bolt, 2 spacers per Bolt, and 5/16” Lock Nut. For left side holes of tongue connection, use 5/16” x 1” Bolt and 5/16” Lock Nut, no spacers.

For holes left of tray slot (viewing from front) use 5/16” x 1-3/16” Hex bolt, two 1/4” spacers per bolt, and 5/16” Lock Nut. This protects Lift handle from weight added to top tray.

Fully tighten all connections

Step 8 Hardware Needed:

4 – Hex Bolt (5/16” x 1-3/16”)
2 – Hex Bolt (5/16” x 13/16”)
6 – Lock Nut (5/16”)
8 – 1/4” Spacer

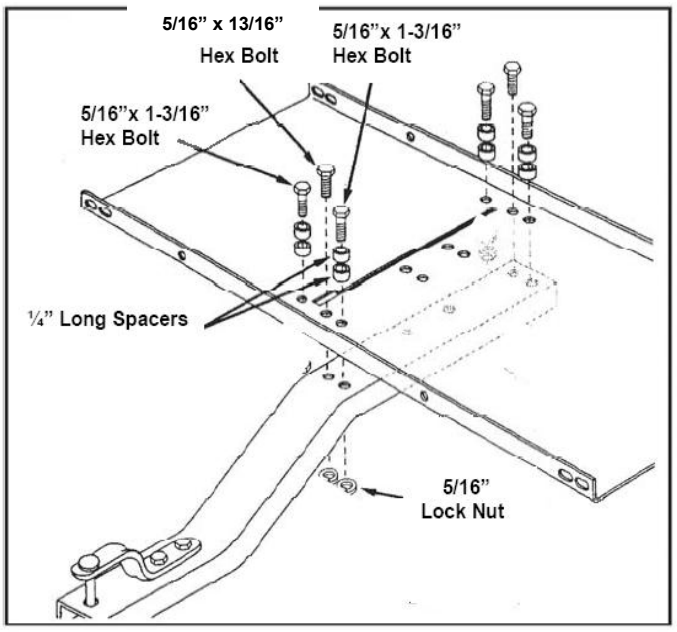


Figure 8

Step 9: Attaching Middle Brace

Position Top Tray between End Plates by leaning the Top Tray into the End Plates. Temporarily attach right end plate to the top tray using two 5/16” x 3/4” bolts. Swing middle brace into position and fasten to top tray using 5/16” x 1” Bolts and 5/16” Lock Nuts.

Do not fully tighten until final step.

Step 9 Hardware Needed:

4 – Hex Bolt (5/16” x 1”)
4 – Lock Nuts (5/16”)
4 – Flat Washers (5/16”)

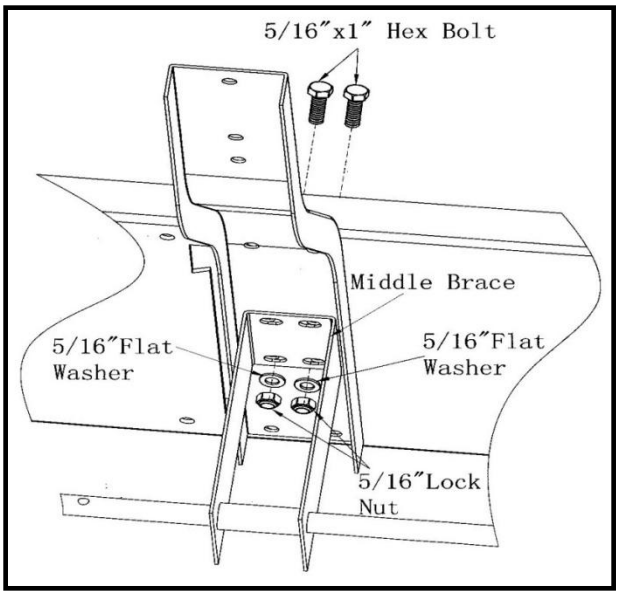


Figure 9

Step 10: Secure Upper Tray

Attach both end plates to the top tray using 5/16” x 3/4” Hex Bolt, 5/16” Flat Washer, and 5/16” Lock Nut for each corner (2 connections per corner).

Repeat for each corner.

Do not fully tighten until final step.

Step 10 Hardware Needed:

8 – Hex Bolt (5/16” x 13/16”)
8 – Lock Nuts (5/16”)
8 – Washer (5/16”)

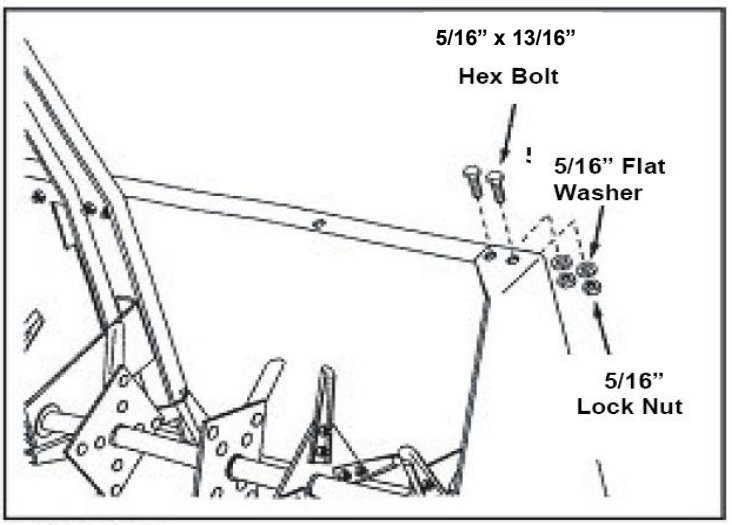


Figure 10

Step 11: Attach Lift Handle

Place the lift handle through the large opening in the tray slot. Attach the lift handle to the wheel bracket smaller hole using the 5/16” x 1” bolt and 5/16” nut you pre-assembled earlier in step 2. Attach the lift handle to larger hole using a 5/16” x 1” Hex Bolt, shoulder spacer, and 5/16” Lock Nut.

Fully tighten connections.

Step 11 Hardware Needed:

1 – Hex Bolt (5/16 x 1”)

1 – Lock Nut (5/16”)

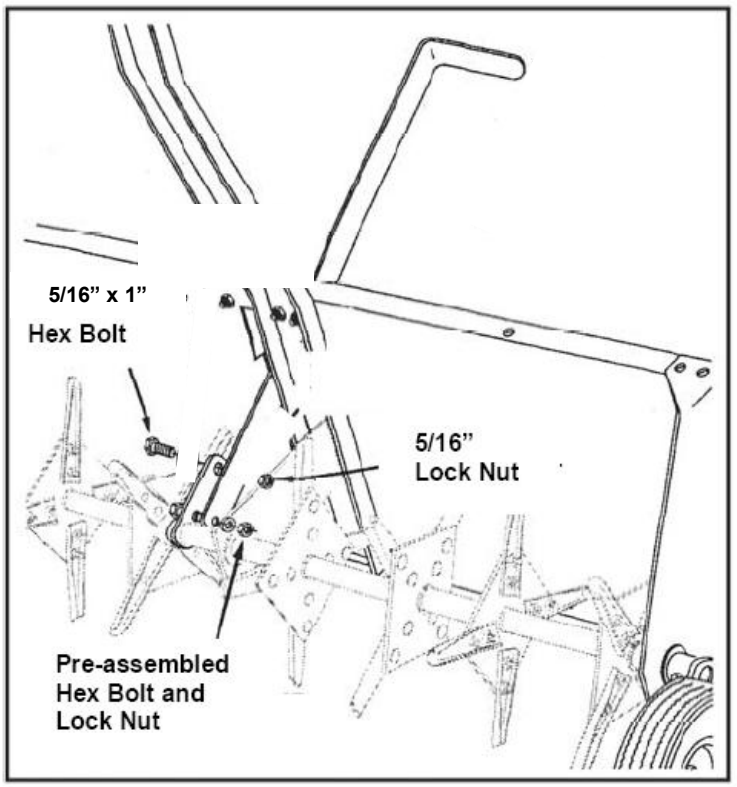


Figure 11

Final Step: Check Handle & Tighten Connections

Carefully place the aerator upright on the wheels.
Check that lift handle moves freely with-in slot;
IF NEEDED, make following adjustments
Lock the lift handle by moving into large offset hole in front of tray slot, then secure with locking pin. Refer to Figure #12.

For #1 in Figure #12:
Adjust the Tray side to side until the lift handle moves freely from back to front

For #2 in Figure #12:
Re-straighten end plates, then fully tighten all 8 corner connections making sure lift handle still moves freely.

Tighten middle brace and top tray connections from step 9 and 10

CHECK THAT ALL CONNECTIONS ARE TIGHT.

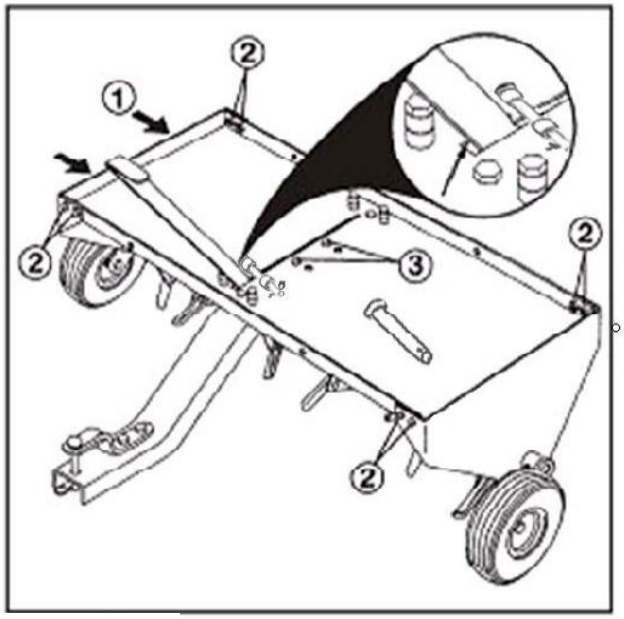


Figure 12

Figure #12 – Close Up Photo

BEHIND THE LIFT ARM on the top tray is a place for locking pin device. Slide locking pin through holes when aerator is in the upright position. This is a safety lock to keep the aerator from dropping down while towing and not in use. This can help prevent damage to plug knives.

Your Aerator is now fully assembled and ready for use.

MAINTENANCE:

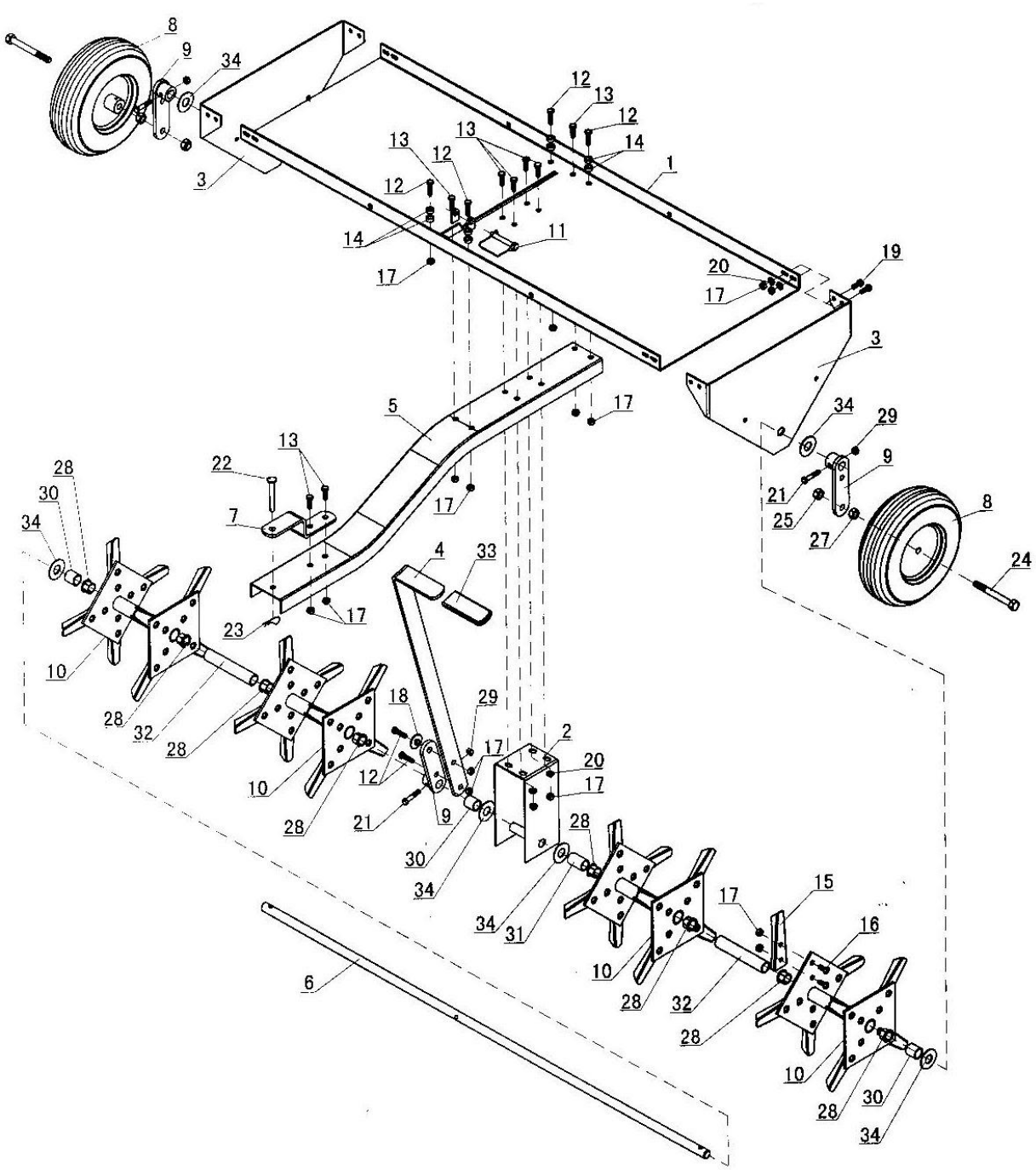
Plugger knives can be periodically sharpened with a small grinder to have continued good plugs from the soil.

Oil the axle shaft and wheel hubs as needed with spray lubricant or small amount of grease

Clean and dry the aerator before long periods of storage.

Maximum weight capacity on top tray is 120lbs.

AE-48T
Parts Illustration And Listing



AE-48T
Parts Illustration And Listing

Ref#	Part #	Description
1	AE48-01	Top Tray
2	AE48-03	Middle Brace
3	AE48-06	End Plate
4	AE48-07	Lift Handle
5	AE48-05	Tongue
6	AE48-08	Axle / Shaft
7	AE48-04	Hitch Bracket
8	AE48-10	Wheel Assembly
9	AE48-02	Wheel Bracket
10	AE48-09	Double Spool Assembly
11	AE48-F	Lock Pin
12	AE48-C	Hex Bolt 5/16" x 1-3/16"
13	AE48-E	Hex Bolt 5/16" x 1"
14	AE48-Q	Spacer 1/4" Long
15	AE48-11	Plug Knife
16	AE48-Z	Carriage Bolt 5/16" x 3/4"

Ref#	Part #	Description
17	AE48-K	Lock Nut, 5/16"
19	AE48-D	Hex Bolt 5/16" x 13/16"
20	AE48-M	Flat Washer, 5/16"
21	AE48-BT	Hex Bolt 1/4" x 1-9/16"
22	AE48-H	Hitch Pin
23	AE48-G	Hair Cotter Pin
24	AE48-A	Hex Bolt 1/2" x 4-7/16"
25	AE48-K	Lock Nut, 5/16"
27	AE48-I	Hex Nut, 1/2"
28	AE-48X	Split Plastic Bearing
29	AE48-TT	Lock Nut, 1/4"
30	AE48-S	Spacer Tube, 1.00"
31	AE48-RT	Spacer Tube, 2.11"
32	AE48-U	Spacer Tube, 5.29"
33	AE-48W	Handle Grip
34	AE48-P	Flat Washer, 7/8"